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SCIENCE

FRIDAY, FEBRUARY 16, 1912

THE GLACIERS AND GLACIATION OF
ALASKA¹

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INTRODUCTION

NOTWITHSTANDING the great area of Alaska, the ruggedness and inaccessibility of a large part of the glaciated region, and the briefness of the period of exploration, we are already in possession of a large body of fact with regard to the glaciers and glaciation of our northern territory. The researches of Wright,² Russell,³ Reid,⁴ Gilbert,⁵ Davidson,⁶ Dall⁷ and others have given us much valuable information concerning the coastal region; and the many expeditions by Hayes,⁸ Brooks, and various other members of the United States Geological Survey⁹ have added ma-

¹ Presidential address before the Association of American Geographers, at the Washington meeting, December 29, 1911.

² Wright, G. F., "The Ice Age in North America," New York, 1891, chapter III., pp. 36-66.

³ Russell, I. C., "An Expedition to Mount St. Elias, Alaska," *Nat. Geog. Mag.*, Vol. 3, 1891, pp. 53-203; "Second Expedition to Mount St. Elias," Thirteenth Ann. Rept. U. S. Geol. Survey, pt. 2, 1892, pp. 1-91.

⁴ Reid, H. F., "Studies of Muir Glacier, Alaska," *Nat. Geog. Mag.*, Vol. 4, 1892, pp. 19-84; "Glacier Bay and its Glaciers," Sixteenth Ann. Rept. U. S. Geol. Survey, pt. 1, 1894-95, pp. 415-461.

⁵ Gilbert, G. K., "Glaciers and Glaciation," Harriman Alaska Expedition, Vol. III., New York, 1904.

⁶ Davidson, G., "The Glaciers of Alaska," *Trans. and Proc. Geog. Soc. Pacific*, Vol. III., Ser. II., June, 1904, 98 pp.

⁷ Dall, W. H., U. S. Coast Pilot, Pacific Coast, Part I., Alaska, 1883, Washington, D. C.

⁸ "An Expedition through the Yukon District," *Nat. Geog. Mag.*, Vol. 4, 1892, pp. 117-159.

⁹ Mainly published in annual reports, bulletins and professional papers of the U. S. Geological Survey.